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Engineering Guide

York Yt Chiller Engineering Guide

This book includes selected peer-reviewed papers presented at the International Conference on Modeling, Simulation and Optimization,

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organized by National Institute of Technology, Silchar, Assam, India, during 3–5 August 2020. The book covers topics of modeling, simulation and optimization, including computational modeling and simulation, system modeling and

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simulation, device/VLSI modeling and simulation, control theory and applications, modeling and simulation of energy system and optimization. The book disseminates various models of diverse systems and includes solutions of emerging challenges of diverse

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scientific fields.

This book reviews the techniques used to improve the engineering behaviour of soils, either in situ or when they are used as a construction material. It is a straightforward, well illustrated and readable account of the techniques and

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includes numerous up-to-date references.

This book is open access under a CC BY 4.0 license. This textbook, endorsed by the European Society for Blood and Marrow Transplantation (EBMT), provides adult and paediatric nurses

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with a full and informative guide covering all aspects of transplant nursing, from basic principles to advanced concepts. It takes the reader on a journey through the history of transplant nursing, including essential and progressive elements to help

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nurses improve their knowledge and benefit the patient experience, as well as a comprehensive introduction to research and auditing methods. This new volume specifically intended for nurses, complements the ESH-EBMT reference title, a popular educational

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resource originally developed in 2003 for physicians to accompany an annual training course also serving as an educational tool in its own right. This title is designed to develop the knowledge of nurses in transplantation. It is the first book of its kind

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specifically targeted at nurses in this specialist field and acknowledges the valuable contribution that nursing makes in this area. This volume presents information that is essential for the education of nurses new to transplantation, while also offering a

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valuable resource for more experienced nurses who wish to update their knowledge.

In the almost sixty years since the publication of the first edition of HVAC Engineer's Handbook, it has become widely known as a highly useful and

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definitive reference for HVAC engineers and technicians alike, and those working on domestic hot and cold water services, gas supply and steam services. The 11th edition continues in the tradition of previous editions, being easily transportable and

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therefore an integral part of the HVAC engineer or technician's daily tools. Newly updated data on natural ventilation, ventilation rates, free cooling and night-time cooling, make the 11th edition of the HVAC Engineer's Handbook a vital source of

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information. Fred Porges has worked in both the manufacturing and process industries, and became a partner in a building services consultancy in 1962. He has held senior positions with design contractors, and his experience covers every building service and type

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of building from schools to housing,
factories to laboratories.

Refrigeration and Air Conditioning
Under the Auspices of EBMT

A Manual for Architects. Fema 454 /
December 2006. (Risk Management
Series)

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HVAC Engineer's Handbook
Recommended Minimum Requirements
for Plumbing

Advances in Concentrating Solar
Thermal Research and Technology

***Significantly revised and
updated since its first***

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***publication in 1996,
Absorption Chillers and
Heat Pumps, Second
Edition discusses the
fundamental physics and
major applications of
absorption chillers. While***

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the popularity of absorption chillers began to dwindle in the United States in the late 1990's, a shift towards sustainability, green buildings and the use of

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renewable energy has brought about a renewed interest in absorption heat pump technology. In contrast, absorption chillers captured a large market share in Asia in

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the same time frame due to relative costs of gas and electricity. In addition to providing an in-depth discussion of fundamental concepts related to absorption

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***refrigeration technology,
this book provides
detailed modeling of a
broad range of simple
and advanced cycles as
well as a discussion of
applications. New to the***

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***Second Edition: Offers
details on the ground-
breaking Vapor
Surfactant theory of mass
transfer enhancement
Presents extensively
revised computer***

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examples based on the latest version of EES (Engineering Equation Solver) software, including enhanced consistency and internal documentation Contains

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new LiBr/H₂O property routines covering a broad range of temperature and the full range of concentration Utilizes new NH₃/H₂O helper functions in EES which

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***significantly enhance
ease of use Adds a new
chapter on absorption
technology applications
Offers updated
absorption fluid transport
property information***

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Absorption Chillers and Heat Pumps, Second Edition provides an updated and thorough discussion of the physics and applications of absorption chillers and

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heat pumps. An in-depth guide to evaluating and simulating absorption systems, this revised edition provides significantly increased consistency and clarity in

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both the text and the worked examples. The introduction of the vapor surfactant theory is a major new component of the book. This definitive work serves as a resource

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***for both the newcomer
and seasoned
professional in the field.
A practical guide to
semiconductor
manufacturing from
processcontrol to yield***

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***modeling and
experimental design
Fundamentals of
Semiconductor
Manufacturing and
Process Control covers all
issues involved in***

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***manufacturing
microelectronic
devices and circuits,
including fabrication
sequences, process
control, experimental
design, process***

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***modeling, yield modeling,
and CIM/CAM systems.
Readers are introduced
to both the theory and
practice of all basic
manufacturing concepts.
Following an overview of***

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***manufacturing and
technology, the
textexplores process
monitoring methods,
including those that focus
onproduct wafers and
those that focus on the***

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***equipment used
toproduce wafers. Next,
the text sets forth some
fundamentals ofstatistics
and yield modeling, which
set the foundation for
adetailed discussion of***

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how statistical process control is used to analyze quality and improve yields. The discussion of statistical experimental design offers readers a powerful approach for

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***systematically varying
controllable
process conditions and
determining their impact
on output parameters
that measure quality. The
authors introduce***

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process modeling concepts, including several advanced process control topics such as run-by-run, supervisory control, and process and equipment diagnosis.

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Critical coverage includes the following: * Combines process control and semiconductor manufacturing * Unique treatment of system and software technology and

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***management of overall
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studies, sample
problems, and
suggested exercises ****
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***examination of how
electronic materials
and supplies are
converted into finished
integrated circuits
and electronic products in
a high-volume manufactu***

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***ringenvironment. An
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presenting detailed
solutions to all
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site is also available.
This full color manual is
intended to explain the
principles of seismic
design for those without***

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a technical background in engineering and seismology. The primary intended audience is that of architects, and includes practicing architects, architectural

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students and faculty in architectural schools who teach structures and seismic design. For this reason the text and graphics are focused on those aspects of seismic

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***design that are important
for the architect to know.
This book presents
selected peer reviewed
papers from the
International Conference
on Advanced Production***

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***and Industrial
Engineering (ICAPIE
2019). It covers a wide
range of topics and latest
research in mechanical
systems engineering,
materials engineering,***

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***micro-machining,
renewable energy,
industrial and production
engineering, and additive
manufacturing. Given the
range of topics discussed,
this book will be useful***

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***for students and
researchers primarily
working in mechanical
and industrial
engineering, and energy
technologies.***
Commerce Business Daily

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***Industrial Biotechnology
Absorption Chillers and
Heat Pumps
Analysis and Design
Mechanical and Electrical
Design of Pumping
Stations***

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Adsorption Refrigeration Technology

***Gives readers a detailed
understanding of adsorption
refrigeration technology, with
a focus on practical
applications and***

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***environmental concerns
Systematically covering the
technology of adsorption
refrigeration, this book
provides readers with a
technical understanding of the
topic as well as detailed***

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information on the state-of-the-art from leading researchers in the field. Introducing readers to background on the development of adsorption refrigeration, the authors also cover the development of

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adsorbents, various thermodynamic theories, the design of adsorption systems and adsorption refrigeration cycles. The book guides readers through the research process, covering key aspects

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***such as: the principle of
adsorption refrigeration;
choosing adsorbents
according to different
characteristics;
thermodynamic equations;
methods for the design of heat***

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exchangers for adsorbers; and the advanced adsorption cycles needed. It is also valuable as a reference for professionals working in these areas. Covers state-of-the art of adsorption research and

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technologies for relevant applications, working from adsorption working pairs through to the application of adsorption refrigeration technology for low grade heat recovery **Assesses**

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sustainable alternatives to traditional refrigeration methods, such as the application of adsorption refrigeration systems for solar energy and waste heat
Includes a key chapter on the

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***design of adsorption
refrigeration systems as a
tutorial for readers new to the
topic; the calculation models
for different components and
working processes are also
included Takes real-world***

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***examples giving an insight
into existing products and
installations and enabling
readers to apply the
knowledge to their own work
Academics researching low
grade energy utilization and***

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refrigeration; Graduate students of refrigeration and low grade energy utilization; Experienced engineers wanting to renew knowledge of adsorption technology, Engineers working

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***at companies developing
adsorption chillers; Graduate
students working on thermally
driven systems; Advanced
undergraduates for the
Refrigeration Principle as a
part of thermal driven***

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***refrigeration technology.
Since many processes in the
food industry involve fluid flow
and heat and mass transfer,
Computational Fluid Dynamics
(CFD) provides a powerful
early-stage simulation tool for***

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gaining a qualitative and quantitative assessment of the performance of food processing, allowing engineers to test concepts all the way through the development of a process or

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system. Published in 2007, the first edition was the first book to address the use of CFD in food processing applications, and its aims were to present a comprehensive review of CFD applications for the food

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industry and pinpoint the research and development trends in the development of the technology; to provide the engineer and technologist working in research, development, and operations

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***in the food industry with
critical, comprehensive, and
readily accessible information
on the art and science of CFD;
and to serve as an essential
reference source to
undergraduate and***

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postgraduate students and researchers in universities and research institutions. This will continue to be the purpose of this second edition. In the second edition, in order to reflect the most recent

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research and development trends in the technology, only a few original chapters are updated with the latest developments. Therefore, this new edition mostly contains new chapters covering the

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analysis and optimization of cold chain facilities, simulation of thermal processing and modeling of heat exchangers, and CFD applications in other food processes.

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Monthly magazine devoted to topics of general scientific interest.

This book presents selected peer-reviewed papers from the International Conference on Recent Advancements in Air

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Conditioning and Refrigeration (RAAR) 2019. The focus is on current research in a very topical area of HVAC technology, which has wide-ranging applications. The topics covered include

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***modern air conditioning and
refrigeration practices,
environment-friendly
refrigerants, high-performance
components, computer-
assisted design, manufacture,
operations and data***

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management, energy-efficient buildings, and application of solar energy to heating and air conditioning. This book is useful for researchers and industry professionals working in the field of heating,

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***air conditioning and
refrigeration.***

***Design, Modelling, Control and
Simulation***

Solar Cooling Technologies

Advanced Energy Design

Guide for Small Warehouses

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***and Self-storage Buildings
Building Performance
Simulation for Design and
Operation
Handbook of Energy Audits***

Winner of Choice Magazine -
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Outstanding Academic Titles for 2007 Buildings account for over one third of global energy use and associated greenhouse gas emissions worldwide. Reducing energy use by buildings is therefore an essential part of any strategy to

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reduce greenhouse gas emissions, and thereby lessen the likelihood of potentially catastrophic climate change. Bringing together a wealth of hard-to-obtain information on energy use and energy efficiency in buildings at a level which can be

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easily digested and applied, Danny Harvey offers a comprehensive, objective and critical sourcebook on low-energy buildings. Topics covered include: thermal envelopes, heating, cooling, heat pumps, HVAC systems, hot water, lighting,

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solar energy, appliances and office equipment, embodied energy, buildings as systems and community-integrated energy systems (cogeneration, district heating, and district cooling). The book includes exemplary buildings

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and techniques from North America, Europe and Asia, and combines a broad, holistic perspective with technical detail in an accessible and insightful manner.

After decades of research and

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development, concentrating solar thermal (CST) power plants (also known as concentrating solar power (CSP) and as Solar Thermal Electricity or STE systems) are now starting to be widely commercialized. Indeed, the IEA

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predicts that by 2050, with sufficient support over ten percent of global electricity could be produced by concentrating solar thermal power plants. However, CSP plants are just but one of the many possible applications of CST

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systems. Advances in Concentrating Solar Thermal Research and Technology provides detailed information on the latest advances in CST systems research and technology. It promotes a deep understanding of the challenges the

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different CST technologies are confronted with, of the research that is taking place worldwide to address those challenges, and of the impact that the innovation that this research is fostering could have on the emergence of new CST

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components and concepts. It is anticipated that these developments will substantially increase the cost-competitiveness of commercial CST solutions and reshape the technological landscape of both CST technologies and the CST

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industry. After an introductory chapter, the next three parts of the book focus on key CST plant components, from mirrors and receivers to thermal storage. The final two parts of the book address operation and control and

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innovative CST system concepts. Contains authoritative reviews of CST research taking place around the world Discusses the impact this research is fostering on the emergence of new CST components and concepts that will substantially

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increase the cost-competitiveness of
CST power Covers both major CST
plant components and system-wide
issues

This open access book presents the
proceedings of the 3rd Indo-
German Conference on

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Sustainability in Engineering held at Birla Institute of Technology and Science, Pilani, India, on September 16–17, 2019. Intended to foster the synergies between research and education, the conference is one of the joint

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activities of the BITS Pilani and TU Braunschweig conducted under the auspices of Indo-German Center for Sustainable Manufacturing, established in 2009. The book is divided into three sections: engineering, education

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and entrepreneurship, covering a range of topics, such as renewable energy forecasting, design & simulation, Industry 4.0, and soft & intelligent sensors for energy efficiency. It also includes case studies on lean and green

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manufacturing, and life cycle analysis of ceramic products, as well as papers on teaching/learning methods based on the use of learning factories to improve students' problem-solving and personal skills. Moreover, the book

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discusses high-tech ideas to help the large number of unemployed engineering graduates looking for jobs become tech entrepreneurs. Given its broad scope, it will appeal to academics and industry professionals alike.

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The past 30 years have seen the emergence of a growing desire worldwide that positive actions be taken to restore and protect the environment from the degrading effects of all forms of pollution – air, water, soil, and noise. Since

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pollution is a direct or indirect consequence of waste, the seemingly idealistic demand for "zero discharge" can be construed as an unrealistic demand for zero waste. However, as long as waste continues to exist, we can only

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attempt to abate the subsequent pollution by converting it to a less noxious form. Three major questions usually arise when a particular type of pollution has been identified: (1) How serious is the pollution? (2) Is the technology

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to abate it available? and (3) Do the costs of abatement justify the degree of abatement achieved? This book is one of the volumes of the Handbook of Environmental Engineering series. The principal intention of this series is to help

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readers formulate answers to the last two questions above. The traditional approach of applying tried-and-true solutions to specific pollution problems has been a major contributing factor to the success of environmental engineering and has

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accounted in large measure for the establishment of a "methodology of pollution control. " However, the realization of the ever-increasing complexity and interrelated nature of current environmental problems renders it imperative that intelligent

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planning of pollution abatement systems be undertaken.

A User's Guide to Vacuum Technology

The European Blood and Marrow Transplantation Textbook for Nurses

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Instrument Engineers' Handbook,
Volume Two
A Guide to Successful Applications
Enhancing Future Skills and
Entrepreneurship
Guide to Antimicrobial Use in
Animals

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When used appropriately, building performance simulation has the potential to reduce the environmental impact of the built environment, to improve indoor quality and productivity, as well as to

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facilitate future innovation and technological progress in construction. Since publication of the first edition of Building Performance Simulation for Design and Operation, the discussion has shifted from

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a focus on software features to a new agenda, which centres on the effectiveness of building performance simulation in building life cycle processes. This new edition provides a unique and comprehensive overview

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of building performance simulation for the complete building life cycle from conception to demolition, and from a single building to district level. It contains new chapters on building information

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modelling, occupant
behaviour modelling, urban
physics modelling, urban
building energy modelling
and renewable energy systems
modelling. This new edition
keeps the same chapter
structure throughout

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including learning objectives, chapter summaries and assignments.

Moreover, the book: •
Provides unique insights into the techniques of building performance modelling and simulation and

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their application to performance-based design and operation of buildings and the systems which service them. • Provides readers with the essential concepts of computational support of performance-based design and

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operation. • Provides examples of how to use building simulation techniques for practical design, management and operation, their limitations and future direction. It is primarily intended for

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building and systems
designers and operators, and
postgraduate architectural,
environmental or mechanical
engineering students.

The latest update to Bela
Liptak's acclaimed "bible"
of instrument engineering is

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now available. Retaining the format that made the previous editions bestsellers in their own right, the fourth edition of Process Control and Optimization continues the tradition of providing quick

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and easy access to highly practical information. The authors are practicing engineers, not theoretical people from academia, and their from-the-trenches advice has been repeatedly tested in real-life

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applications. Expanded coverage includes descriptions of overseas manufacturer's products and concepts, model-based optimization in control theory, new major inventions and innovations in control

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valves, and a full chapter devoted to safety. With more than 2000 graphs, figures, and tables, this all-inclusive encyclopedic volume replaces an entire library with one authoritative reference. The

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fourth edition brings the content of the previous editions completely up to date, incorporates the developments of the last decade, and broadens the horizons of the work from an American to a global

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perspective. Béla G. Lipták speaks on Post-Oil Energy Technology on the AT&T Tech Channel.

This volume presents a wide range of new approaches aimed at improving the safety and quality of food

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products and agricultural commodities. Each chapter provides in-depth information on new and emerging food preservation techniques including those relating to decontamination, drying and dehydration,

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packaging innovations and the use of botanicals as natural preservatives for fresh animal and plant products. The 28 chapters, contributed by an international team of experienced researchers, are

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presented in five sections,
covering: Novel
decontamination techniques
Novel preservation
techniques Active and
atmospheric packaging Food
packaging Mathematical
modelling of food

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preservation processes
Natural preservatives This title will be of great interest to food scientists and engineers based in food manufacturing and in research establishments. It will also be useful to

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"Fourth in series that provides recommendations for achieving 30% energy savings over minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-1999 for warehouses up

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Computational Fluid Dynamics
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Natural Gas Hydrates

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Flotation Technology
Fundamentals of
Semiconductor Manufacturing
and Process Control

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Biotechnology series provides an
overview of the main product classes
and platform chemicals produced by**

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biotechnological processes today, with applications in the food, healthcare and fine chemical industries. Alongside the production of drugs and flavors as well as amino acids, bio-based monomers and polymers and biofuels, basic insights are also given as to the biotechnological processes yielding such

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products and how large-scale production may be enabled and improved. Of interest to biotechnologists, bio and chemical engineers, as well as those working in the biotechnological, chemical, and food industries.

This book discusses conventional as well

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as unconventional wood drying technologies. It covers fundamental thermophysical and energetic aspects and integrates two complex thermodynamic systems, conventional kilns and heat pumps, aimed at improving the energy performance of dryers and the final quality of dried

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lumber. It discusses advanced components, kiln energy requirements, modeling, and software and emphasizes dryer/heat pump optimum coupling, control, and energy efficiency. Problems are included in most chapters as practical, numerical examples for process and system/components

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calculation and design. The book presents promising advancements and R&D challenges and future requirements.

The aim of this book is to present a number of digital and technology solutions to real-world problems across transportation sectors and

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infrastructures. Nine chapters have been well prepared and organized with the core topics as follows: -A guideline to evaluate the energy efficiency of a vehicle -A guideline to design and evaluate an electric propulsion system -Potential opportunities for intelligent transportation systems and smart cities

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-The importance of system control and energy-power management in transportation systems and infrastructures -Bespoke modeling tools and real-time simulation platforms for transportation system development This book will be useful to a wide range of audiences: university staff and students,

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engineers, and business people working in relevant fields.

Green Manufacturing: Fundamentals and Applications introduces the basic definitions and issues surrounding green manufacturing at the process, machine and system (including supply chain) levels. It also shows, by

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way of several examples from different industry sectors, the potential for substantial improvement and the paths to achieve the improvement.

Additionally, this book discusses regulatory and government motivations for green manufacturing and outlines the path for making manufacturing

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**more green as well as making
production more sustainable. This book
also: Discusses new engineering
approaches for manufacturing and
provides a path from traditional
manufacturing to green manufacturing
Addresses regulatory and economic
issues surrounding green**

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manufacturing Details new supply chains that need to be in place before going green Includes state-of-the-art case studies in the areas of automotive, semiconductor and medical areas as well as in the supply chain and packaging areas

Advances in Manufacturing and

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Conditioning
*This is the most exhaustive***

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study to date on natural gas hydrates. In spite of their importance, hydrates are misunderstood, and misconceptions abound. This book provides an accurate review of what

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hydrates are and under what conditions they will form, and it provides the engineer with the methods to predict the occurrences of hydrates. The petroleum industry spends millions

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every year to combat the formation of hydrates, the solid, crystalline compounds that form from water and small molecules, damaging equipment and plugging transmission

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***lines. Understanding how, when, and where they form and using this knowledge to apply remedies in practical applications are crucial. *
The most comprehensive study of natural gas***

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***hydrates * A manual for the
engineer or textbook for the
student * Contains cutting-
edge solutions to natural
gas hydrate problems
Based on the most recent
standards from ASHRAE,***

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the sixth edition provides complete and up-to-date coverage of all aspects of heating, ventilation, and air conditioning. The latest load calculation procedures, indoor air

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quality procedures, and issues related to ozone depletion are covered. New to this edition is the inclusion of additional realistic, interactive and in-depth examples available on

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the book website (www.wiley.com/college/mcquiston) that enable students to simulate various scenarios to apply concepts from the text. Also integrated throughout the text are

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numerous worked examples that clearly show students how to apply the concepts in realistic scenarios. The sixth edition has also been revised to be more accessible to students for

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***easier comprehension.
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semester,
Junior/Senior/Graduate
course in HVAC taught in
Mechanical Engineering,
Architectural Engineering,***

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Engineering Technology
departments.***

***Solar Cooling Technologies
presents a detailed study of
the potential technologies
for coupling solar energy***

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Unifies all the various
power based solar
techniques into one book,
investigates tri-generation
schemes for maximization
of cooling efficiency,***

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especially for small scale applications and offers direct comparison of all possible technologies of solar cooling Includes detailed numerical investigations for potential

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***cooling applications
The definitive
text/reference for students,
researchers and practicing
engineers This book
provides comprehensive
coverage on refrigeration***

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systems and applications, ranging from the fundamental principles of thermodynamics to food cooling applications for a wide range of sectoral utilizations. Energy and

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exergy analyses as well as performance assessments through energy and exergy efficiencies and energetic and exergetic coefficients of performance are explored, and numerous

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analysis techniques, models, correlations and procedures are introduced with examples and case studies. There are specific sections allocated to environmental impact

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assessment and sustainable development studies. Also featured are discussions of important recent developments in the field, including those stemming from the author's

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***pioneering research.
Refrigeration is a uniquely
positioned multi-
disciplinary field
encompassing mechanical,
chemical, industrial and
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chemistry. Its wide-ranging applications mean that the industry plays a key role in national and international economies. And it continues to be an area of active research, much of it

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focusing on making the technology as environmentally friendly and sustainable as possible without compromising cost efficiency and effectiveness. This substantially updated

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and revised edition of the classic text/reference now features two new chapters devoted to renewable-energy-based integrated refrigeration systems and environmental

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impact/sustainability assessment. All examples and chapter-end problems have been updated as have conversion factors and the thermophysical properties of an array of materials.

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in the fundamental
principles and the practical
applications of refrigeration
technologies Examines
fundamental aspects of
thermodynamics,***

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***refrigerants, as well as
energy and exergy analyses
and energy and exergy
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